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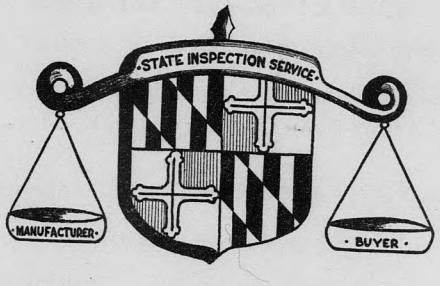
COMMERCIAL FERTILIZERS

This Bulletin constitutes a complete report of Fertilizer Inspection Activities in Maryland from July 1, 1928, to January 1, 1929.



FERTILIZER INSPECTION SERVICE
Controlled by
UNIVERSITY OF MARYLAND
COLLEGE PARK, MD.

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COMMERCIAL FERTILIZERS

JULY 1, 1928—JANUARY 1, 1929

Compiled and edited under the supervision and direction of L. B. Broughton, Acting State Chemist, and L. E. Bopst, Associate.

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INTRODUCTION

In accordance with the requirements of Section 8 of the Fertilizer Inspection Statute of Maryland, special representatives of this department collected 1,381 samples of fertilizers and fertilizing materials during the year 1928. This represents an increase of 93 over the total number secured in 1927. These samples were all subjected to complete examinations in the state laboratories. The methods employed in examination were those that have been adopted as official by the Association of Official Agricultural Chemists of North America, an organization of which this department is a member.

Of the 1,381 samples taken during the past year, 501 are covered by the reports in this bulletin. They were drawn from shipments and sales made during the fall season, from July 1, 1928, to January 1, 1929. Results of these examinations have been forwarded manufacturers, dealers and, whenever possible, buyers.

Deficiencies were found existing in either the nitrogen, phosphoric acid or potash content guaranteed of 101 samples, or 20.1 per cent. of all sales. Compared with this, only 24 or 4.7 per cent. were deficient in value guaranteed. This record is entirely comparable with that of 1927, when 19.7 per cent. of total sales differed in some respect from guarantees.

In addition to the analyses of the official samples included in this report, 101 samples drawn and forwarded to us by purchasers under the provisions of Section 9 of the Maryland Fertilizer Law, have been examined in the laboratories and reports of such analyses have been transmitted to the parties particularly interested. Since a representative sample is as essential as an accurate analysis in judging the quality of a shipment of fertilizer, this organization can only vouch for the accuracy of the results obtained on the materials as submitted.

CLASSIFICATION OF FERTILIZERS ANALYZED IN 1928

1.	Containing Nitrogen or Ammonia as the chief active ingredient:	
	Nitrate of Soda	20
	Sulphate of Ammonia	9
	Urea	1
2.	Containing Phosphoric Acid as the chief active ingredient:	
	Superphosphate	103
	Lime Phosphate	16
3.	Containing Potash as the chief active ingredient:	
	Sulphate of Potash	5
	Muriate of Potash	10
	Kainit	35
	Manure Salts	4
4.	Containing Nitrogen and Potash:	
	Nitrogen and Potash	1
5.	Containing Nitrogen and Phosphoric Acid:	
	Tankage	10
	Ground Bone	39
6.	Mixed Fertilizers:	
	Containing Nitrogen and Phosphoric Acid	12
	Containing Phosphate and Potash	113
	Containing Nitrogen, Phosphoric Acid and Potash	980
7.	Miscellaneous Fertilizers:	
	Sheep Manure	9
	Sheep and Goat Manure	1
	Blood Meal	3
	Cattle Manure	3
	Other Miscellaneous	7
	Total	1,381

COMMERCIAL VALUES

The valuations adopted for the past fall season and which are given below are chiefly of use in making comparisons of the relative values of the various fertilizers analyzed.

It has been found impossible to fix a single scale of valuations adapted to the numerous points of consumption throughout the State, as there is in some cases quite a difference existing in the transportation charges from points of manufacture to user. It is our desire to show the average cost of fertilizer materials to manufacturers f. o. b. Baltimore, without taking into consideration expenses incidental to manufacture and distribution together with a fair manufacturer's profit.

The valuations employed in this bulletin for calculating the approximate relative values of fertilizers are as follows:

Table For Calculating Fertilizer Values

	Per Unit
(1) Nitrogen calculated as ammonia	$4.00
(2) Available phosphoric acid:	
(a) In mixed fertilizers or in dissolved rock	.80
(b) In tankage or ground bone	.60
(3) Insoluble phosphoric acid	.15
(4) Potash	.80

VALUES

To compute values of fertilizers on this scale multiply the percentage of each plant food in the fertilizer by the respective value per unit given in the table and add the results together.

Take for example a complete fertilizer with an analysis of 2-8-5. We would have two per cent. of ammonia, eight per cent. of phosphoric acid and five per cent. of potash. Since by the preceding table ammonia is worth $4.00 per unit, available phosphoric acid, 80 cents, and potash, 80 cents, we have $18.40.

2 × $4.00 = $8.00, value of ammonia
8 × .80 = 6.40, value of phosphoric acid
5 × .80 = 4.00, value of potash

$18.40, value of fertilizer per ton.

TABLES

The following pages contain the guaranties and analyses of 501 brands of commercial fertilizers examined from July 1, 1928, to January 1, 1929:

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Agricultural Corp. of Maryland, Baltimore, Md.													
Md. Farm Bureau Super Phosphate	Baltimore	....	....	....	....	**.30**	....	**18.10**	16.00	....	....	**$14.53**	$12.80
Md. Farm Bureau 2-12-4	Baltimore	**1.50**	1.60	**2.01**	2.00	**2.10**	....	**12.20**	12.00	**4.24**	4.00	**21.51**	20.80
American Agricultural Chemical Co., New York, N. Y.													
Super Phosphate 0-16-0	Baltimore	....	....	....	....	**1.00**	....	**17.00**	16.00	....	....	**13.75**	12.80
Super Phosphate 0-16-0	Baltimore	....	....	....	....	**1.05**	....	**16.95**	16.00	....	....	**13.72**	12.80
Acme Fertilizer 1-9-4	Baltimore	**.45**	.43	**1.08**	1.00	**1.15**	....	**9.15**	9.00	**4.12**	4.00	**15.11**	14.40
Acme Fertilizer 1-9-4	Baltimore	**.81**	.43	**1.01**	1.00	**1.00**	....	**9.40**	9.00	**4.30**	4.00	**15.15**	14.40
Acme Fertilizer 1-9-4	Baltimore	**.70**	.43	**.90**	1.00	**1.25**	....	**10.15**	9.00	**4.28**	4.00	**15.33**	14.40
Acme Fertilizer 1-9-4	Waldorf	**.75**	.43	**1.09**	1.00	**1.35**	....	**9.25**	9.00	**4.20**	4.00	**15.32**	14.40
Agrico Fertilizer for Corn 3-10-6	Baltimore	**2.85**	1.52	**3.09**	3.00	**.90**	....	**10.00**	10.00	**6.00**	6.00	**25.30**	24.80
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.67**	1.03	**2.18**	2.00	**.90**	....	**12.80**	12.00	**4.16**	4.00	**22.43**	20.80
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.72**	1.03	**1.98**	2.00	**.85**	....	**12.55**	12.00	**4.12**	4.00	**21.39**	20.80
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.60**	1.03	**2.01**	2.00	**1.15**	....	**12.45**	12.00	**4.30**	4.00	**21.61**	20.80
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.70**	1.03	**1.96**	2.00	**1.05**	....	**12.65**	12.00	**4.28**	4.00	**21.54**	20.80
Agrico Fertilizer for Grain 2-12-4	Baltimore	**1.65**	1.03	**1.96**	2.00	**1.30**	....	**12.70**	12.00	**4.32**	4.00	**21.66**	20.80
Agrico Fertilizer for Potatoes 4-8-6	Baltimore	**3.67**	2.13	**4.15**	4.00	**.65**	....	**8.95**	8.00	**6.28**	6.00	**28.88**	27.20
Basic Lime Phosphate 0-13-0	Baltimore	....	....	....	....	**2.50**	....	**13.20**	13.00	....	....	**10.94**	10.40
Basic Lime Phosphate 0-13-0	Baltimore	....	....	....	....	**.80**	....	**14.20**	13.00	....	....	**11.48**	10.40
Basic Lime Phosphate 0-13-0	Baltimore	....	....	....	....	**2.20**	....	**13.00**	13.00	....	....	**10.73**	10.40
Farmer's Friend Fertilizer 2-12-4	Baltimore	**1.78**	1.03	**1.98**	2.00	**1.10**	....	**12.70**	12.00	**4.24**	4.00	**21.64**	20.80
Farmer's Friend Fertilizer 2-12-4	Upper Marlboro	**1.76**	1.03	**2.12**	2.00	**1.20**	....	**13.10**	12.00	**4.36**	4.00	**22.63**	20.80
Fine Ground Bone	Baltimore	....	....	**3.16**	3.00	....	....	***27.20**	*22.88	....	....	**28.96**	25.73

Kangaroo Komplete Kompound 2-9-3	Baltimore	**1.58**	1.03	**2.13**	2.00	**.85**	....	**9.55**	9.00	**3.32**	3.00	**18.95**	17.60
Kangaroo Komplete Kompound 2-9-3	Baltimore	**1.79**	1.03	**2.06**	2.00	**.80**	....	**9.70**	9.00	**3.20**	3.00	**18.68**	17.60
Monarch Fertilizer 4-8-4	Upper Marlboro	**3.72**	....	**4.11**	4.00	**1.10**	....	**8.30**	8.00	**4.24**	4.00	**26.64**	25.60
Neptune Fish Fertilizer 1-9-4	Baltimore	**.51**	.43	**1.11**	1.00	**1.25**	....	**9.15**	9.00	**4.24**	4.00	**15.34**	14.40
Neptune Fish Fertilizer 1-9-4	Baltimore	**.46**	.43	**.99**	1.00	**1.15**	....	**9.75**	9.00	**4.12**	4.00	**15.23**	14.40
Pure Raw Bone	Baltimore	....	....	**4.79**	4.50	....	....	***20.80**	*20.60	....	....	**31.64**	30.36
Pure Raw Bone	Baltimore	....	....	**5.02**	4.50	....	....	***21.50**	*20.60	....	....	**32.98**	30.36
Pure Raw Bone	Upper Marlboro	....	....	**5.18**	4.50	....	....	***21.70**	*20.60	....	....	**33.74**	30.36
Red Dog Fertilizer 2-8-5	Baltimore	**1.67**	1.03	**2.18**	2.00	**.85**	....	**8.55**	8.00	**5.36**	5.00	**19.98**	18.40
Red Dog Fertilizer 2-8-5	Baltimore	**1.83**	1.03	**2.12**	2.00	**.55**	....	**8.75**	8.00	**5.34**	5.00	**19.83**	18.40
Red Dog Fertilizer 2-8-5	Baltimore	**1.50**	1.03	**2.01**	2.00	**.75**	....	**8.15**	8.00	**5.76**	5.00	**19.28**	18.40
Red Dog Fertilizer 2-8-5	Baltimore	**1.38**	1.03	**1.93**	2.00	**.90**	....	**8.90**	8.00	**5.32**	5.00	**19.24**	18.40
Red Dog Fertilizer 2-8-5	Baltimore	**1.75**	1.03	**2.01**	2.00	**.95**	....	**8.75**	8.00	**5.30**	5.00	**19.42**	18.40
Red Dog Fertilizer 2-8-5	Waldorf	**1.67**	1.03	**2.08**	2.00	**1.30**	....	**8.70**	8.00	**5.12**	5.00	**19.58**	18.40
Victory Mixture 0-12-5	Hyattsville	**1.77**	1.03	**2.15**	2.00	**.95**	....	**8.65**	8.00	**5.24**	5.00	**19.85**	18.40
Victory Mixture 0-12-5	Baltimore	....	....	....	....	**.70**	....	**12.80**	12.00	**5.32**	5.00	**14.61**	13.60
Victory Mixture 0-12-5	Baltimore	....	....	....	....	**.90**	....	**13.00**	12.00	**5.38**	5.00	**14.84**	13.60
Victory Mixture 0-12-5	Baltimore	....	....	....	....	**.90**	....	**13.10**	12.00	**5.36**	5.00	**14.91**	13.60
Victory Mixture 0-12-5	Baltimore	....	....	....	....	**.65**	....	**12.55**	12.00	**5.20**	5.00	**14.30**	13.60
Detrick's Gold Basis Fertilizer 7-6-5	Waldorf	**5.98**	4.13	**6.54**	7.00	**.40**	....	**7.50**	6.00	**4.80**	5.00	**36.06**	36.80
Listers Super Phosphate H. G.	Baltimore	....	....	....	....	**.85**	....	**13.35**	12.00	**5.20**	5.00	**14.97**	13.60
Listers "G" Brand Fertilizer 1-9-4	Baltimore	....	....	....	....	**.90**	....	**16.70**	16.00	....	....	**13.50**	12.80
Listers Harvest Queen Fertilizer 2-8-5	Baltimore	**.78**	.43	**1.04**	1.00	**1.00**	....	**9.30**	9.00	**4.32**	4.00	**15.21**	14.40
Slingluff's Plant Bed Fertilizer 10-5-2	Baltimore	**1.64**	1.03	**2.15**	2.00	**.80**	....	**8.80**	8.00	**5.32**	5.00	**20.02**	18.40
		9.33	6.08	**10.11**	10.00	**.35**	....	**6.45**	5.00	**2.28**	2.00	**47.47**	45.60
Armour Fertilizer Works, Balto., Md.													
Big Crop Acid Phosphate 0-16-0	Baltimore	....	....	....	....	**.45**	....	**17.05**	16.00	....	....	**13.71**	12.80
Big Crop 4-8-4	Baltimore	**3.21**	2.00	**3.48**	4.00	**.15**	....	**8.45**	8.00	**4.20**	4.00	**24.14**	25.60
Big Crop 4-16-4	Baltimore	**3.87**	2.00	**3.99**	4.00	**.25**	....	**16.85**	16.00	**4.30**	4.00	**32.92**	32.00
Big Crop 4-16-4	Baltimore	**3.86**	2.00	**3.98**	4.00	**.25**	....	**16.55**	16.00	**4.32**	4.00	**32.66**	32.00
Big Crop 4-16-10	Vienna	**4.01**	2.00	**4.15**	4.00	**.20**	....	**16.90**	16.00	**10.36**	10.00	**38.44**	36.80
Big Crop 4-16-10	Baltimore	**4.03**	2.00	**4.10**	4.00	**.20**	....	**16.60**	16.00	**10.16**	10.00	**37.84**	36.80
Big Crop 1-9-4	Ridgely	**.85**	.50	**1.02**	1.00	**.15**	....	**9.15**	9.00	**4.24**	4.00	**14.81**	14.40
Kainit	Ridgely	....	....	....	....	....	....	....	....	**12.80**	12.00	....	....
Kainit	Baltimore	....	....	....	....	....	....	....	....	**14.40**	12.00	....	....
Lime Phosphate 0-13-0	Baltimore	....	....	....	....	**.95**	....	**13.35**	13.00	....	....	**10.82**	10.40

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Armour Fertilizer Works, (Continued).													
Lime Phosphate 0-13-0	Baltimore	....	....	....	....	**.85**	....	**14.05**	13.00	....	....	**$11.37**	$10.40
Lime Phosphate 0-13-0	Baltimore	....	....	....	....	**1.90**	....	**13.20**	13.00	....	....	**10.85**	10.40
Big Crop 2-8-5	Baltimore	**1.71**	1.00	**2.10**	2.00	**.30**	....	**8.60**	8.00	**5.34**	5.00	**19.60**	18.40
Big Crop 2-8-5	Ridgely	**1.90**	1.00	**2.10**	2.00	**.15**	....	**8.55**	8.00	**5.52**	5.00	**19.68**	18.40
Big Crop 2-8-5	Baltimore	**1.57**	1.00	**1.95**	2.00	**.20**	....	**8.40**	8.00	**5.00**	5.00	**18.55**	18.40
Big Crop 2-8-5	Baltimore	**1.55**	1.00	**2.06**	2.00	**.20**	....	**8.80**	8.00	**5.00**	5.00	**19.31**	18.40
Big Crop 2-8-5	Baltimore	**1.84**	1.00	**2.06**	2.00	**.15**	....	**9.15**	8.00	**5.00**	5.00	**19.58**	18.40
Big Crop 2-8-5	Baltimore	**1.72**	1.00	**1.98**	2.00	**.15**	....	**8.65**	8.00	**5.08**	5.00	**18.92**	18.40
Big Crop 2-8-10	Baltimore	**1.74**	1.00	**1.98**	2.00	**.15**	....	**8.65**	8.00	**10.16**	10.00	**22.99**	22.40
Big Crop 2-16-8	Baltimore	**1.88**	1.00	**2.08**	2.00	**.25**	....	**16.05**	16.00	**8.36**	8.00	**27.89**	27.20
Big Crop 2-16-8	Baltimore	**1.60**	1.00	**2.01**	2.00	**.70**	....	**16.10**	16.00	**8.34**	8.00	**27.70**	27.20
Big Crop 2-16-8	Ridgely	**1.63**	1.00	**1.83**	2.00	**.10**	....	**16.80**	16.00	**9.00**	8.00	**27.98**	27.20
Big Crop 2-16-8	Baltimore	**1.59**	1.00	**1.88**	2.00	**.15**	....	**17.35**	16.00	**8.38**	8.00	**28.12**	27.20
Big Crop 2-12-4	Baltimore	**1.89**	1.00	**2.06**	2.00	**.45**	....	**12.55**	12.00	**4.20**	4.00	**21.71**	20.80
Big Crop 0-12-5	Baltimore	....	....	....	....	**.40**	....	**12.90**	12.00	**5.92**	5.00	**15.12**	13.60
Big Crop 0-12-5	Baltimore	....	....	....	....	**.40**	....	**12.20**	12.00	**5.32**	5.00	**14.08**	13.60
Big Crop 0-12-5	Baltimore	....	....	....	....	**.50**	....	**13.10**	12.00	**5.16**	5.00	**14.69**	13.60
Big Crop 0-12-5	Baltimore	....	....	....	....	**.25**	....	**12.75**	12.00	**5.16**	5.00	**14.37**	13.60
Associated Chemical Co., Balto., Md.													
Manure Salts	Centreville	....	....	....	....	....	....	....	....	**20.16**	20.00	....	....
Manure Salts	Baltimore	....	....	....	....	....	....	....	....	**20.00**	20.00	....	....
Manure Salts	Baltimore	....	....	....	....	....	....	....	....	**20.00**	20.00	....	....
Manure Salts	Baltimore	....	....	....	....	....	....	....	....	**20.80**	20.00	....	....
Pure Raw Bone	Baltimore	....	....	**4.30**	4.50	....	....	***21.60**	*20.00	....	....	**30.16**	30.00

Baltimore Fertilizer Co., Balto., Md.													
Honest 0-16%-0 Acid Phosphate	Baltimore	....	....	....	....	**1.40**	....	**16.00**	16.00	....	....	**13.01**	12.80
Honest 0-16%-0 Acid Phosphate	Glyndon	....	....	....	....	**.60**	....	**17.30**	16.00	....	....	**13.93**	12.80
Honest 1-9-4	Baltimore	**.54**	.31	**1.14**	1.00	**1.10**	....	**9.10**	9.00	**4.36**	4.00	**15.50**	14.40
Honest 1-9-4	Glyndon	**.34**	.49	**.65**	1.00	**.60**	....	**10.90**	9.00	**4.08**	4.00	**14.67**	14.40
Honest 2-8-5	Baltimore	**1.32**	.60	**2.00**	2.00	**.40**	....	**8.80**	8.00	**5.16**	5.00	**19.23**	18.40
Honest 2-8-5	Glyndon	**1.47**	1.00	**1.85**	2.00	**.75**	....	**9.15**	8.00	**5.24**	5.00	**19.02**	18.40
Old Honesty 1-11-2	Glyndon	**.50**	.49	**.81**	1.00	**.85**	....	**12.05**	11.00	**2.36**	2.00	**14.90**	14.40
Baltimore Pulv'g. Co., Baltimore, Md													
Acme Harvest King	Baltimore	**.63**	.50	**1.06**	1.00	**.80**	....	**9.60**	10.00	**4.68**	4.00	**15.78**	15.20
Phosphate, Bone and Potash	Baltimore	**.29**	....	**1.04**	1.00	**2.15**	....	**8.25**	8.00	**5.72**	5.00	**15.66**	14.40
Royal Compound	Baltimore	**1.42**	1.21	**1.93**	2 00	**1.00**	....	**11.70**	12.00	**4.32**	4.00	**20.69**	20.80
Royal Compound	Baltimore	**1.82**	1.21	**2.18**	2.00	**.70**	....	**12.40**	12.00	**4.32**	4.00	**22.21**	20.80
Spring and Fall Mixture	Baltimore	....	....	....	....	**.75**	....	**7.85**	8.00	**6.00**	6.00	**11.19**	11.20
Baugh & Sons Co., Baltimore, Md.													
Baughphos The Ideal 0-16%-0 Super Phosphate	Baltimore	....	....	....	....	**2.10**	....	**16.00**	16.00	....	....	**13.12**	12.80
Baughphos The Ideal 0-16%-0 Super Phosphate	Baltimore	....	....	....	....	**2.15**	....	**16.45**	16.00	....	....	**13.48**	12.80
Baughphos The Ideal 0-16%-0 Super Phosphate	Maple Grove	....	....	....	....	**2.05**	....	**17.85**	16.00	....	....	**14.59**	12.80
Animal Base and Potash Compound	Baltimore	**1.45**	.90	**1.98**	2.00	**1.55**	....	**9.15**	9.00	**3.04**	3.00	**17.90**	17.60
Complete Animal Base Fertilizer	Baltimore	**1.37**	.90	**2.15**	2.00	**1.10**	....	**8.70**	8.00	**5.24**	5.00	**19.92**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.14**	.90	**2.01**	2.00	**.75**	....	**8.35**	8.00	**5.24**	5.00	**19.02**	18.40
Complete Animal Base Fertilizer	Baltimore	**.91**	.90	**2.10**	2.00	**.55**	....	**8.55**	8.00	**5.64**	5.00	**19.83**	18.40
Complete Animal Base Fertilizer	Preston	**1.55**	.90	**2.06**	2.00	**.90**	....	**8.00**	8.00	**5.34**	5.00	**19.05**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.40**	90	**2.01**	2.00	**1.30**	....	**7.90**	8.00	**5.36**	5.00	**18.85**	18.40
Complete Animal Base Fertilizer	Keymar	**1.57**	.90	**1.98**	2.00	**1.30**	....	**8.30**	8.00	**5.36**	5.00	**19.05**	18.40
Complete Animal Base Fertilizer	Myersville	**1.53**	.90	**2.01**	2.00	**.85**	....	**8.05**	8.00	**5.28**	5.00	**18.83**	18.40
Complete Animal Base Fertilizer	Woodbine	**1.51**	.90	**2.00**	2.00	**.35**	....	**8.65**	8.00	**5.32**	5.00	**19.23**	18.40
Commercial Crop Compound	Grantsville	**1.52**	....	**2.03**	2.00	**.95**	....	**8.55**	8.00	**11.24**	10.00	**24.09**	22.40
Double Eagle Phosphate	Baltimore	**1.79**	.90	**2.13**	2.00	**1.30**	....	**12.90**	12.00	**4.30**	4.00	**22.48**	20.80
Double Eagle Phosphate	Woodbine	**1.42**	.90	**2.00**	2.00	**1.45**	....	**12.00**	12.00	**4.04**	4.00	**21.05**	20.80
Excelsior Guano	Baltimore	**.56**	.60	**1.26**	1.00	**1.25**	....	**9.05**	9.00	**4.28**	4.00	**15.89**	14.40
Excelsior Guano	Preston	**.65**	.60	**1.11**	1.00	**1.35**	....	**8.65**	9.00	**4.36**	4.00	**15.05**	14.40

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Baugh & Sons Co., Baltimore, Md.,	(Continued)												
Excelsior Guano	Baltimore	.31	.60	1.01	1.00	.95	....	9.25	9.00	4.12	4.00	$14.88	$14.40
Excelsior Guano	Myersville	.58	.60	1.02	1.00	.70	....	9.50	9.00	4.28	4.00	15.21	14.40
Excelsior Guano	Woodbine	.52	.60	1.00	1.00	1.60	....	9.10	9.00	4.12	4.00	14.82	14.40
Excelsior Guano	Baltimore	.54	.60	1.02	1.00	1.05	....	9.25	9.00	4.00	4.00	14.84	14.40
Half and Half Mixture with Potash	Baltimore	.72	....	1.50	1.50	6.75	....	11.15	10.00	5.36	5.00	20.22	18.00
Lime and Phosphate	Baltimore	....	....	....	....	1.85	....	13.35	13.00	....	....	10.96	10.40
Lime and Phosphate	Baltimore	....	....	....	....	1.65	....	14.35	13.00	....	....	11.73	10.40
Phosphate and Potash Mixture	Baltimore	....	....	....	....	.75	....	12.35	12.00	5.64	5.00	14.50	13.60
Phosphate and Potash Mixture	Baltimore	....	....	....	....	.60	....	12.40	12.00	6.08	5.00	14.87	13.60
Phosphate and Potash Mixture	Baltimore	....	....	....	....	.75	....	11.35	10.00	4.28	4.00	12.61	11.20
Raw Bone Meal	Baltimore	....	....	4.75	4.50	....	....	*22.60	*21.50	....	....	32.56	30.90
Raw Bone Meal	Baltimore	....	....	4.52	4.50	....	....	*23.10	*21.50	....	....	31.94	30.90
Raw Bone Meal	Camp Springs	....	....	4.50	4.50	....	....	*21.70	*21.50	....	....	31.02	30.90
Wheat Fert. for Wheat and Grass	Baltimore	1.57	.90	2.18	2.00	1.30	....	9.20	9.00	3.32	3.00	18.94	17.60
Wheat Fert. for Wheat and Grass	Baltimore	1.52	.90	2.17	2.00	1.05	....	9.55	9.00	3.24	3.00	19.07	17.60
Wheat Fert. for Wheat and Grass	Baltimore	1.57	.90	2.08	2.00	1.55	....	9.15	9.00	3.16	3.00	18.40	17.60
Wheat Fert. for Wheat and Grass	Baltimore	1.25	.90	2.00	2.00	1.30	....	9.30	9.00	3.36	3.00	18.33	17.60
Beckley Fertilizer Co., Halfway, Md.													
Dissolved Phosphate	Halfway	....	....	....	....	.30	....	17.40	16.00	....	....	13.97	12.80
Crop Grower	Halfway	.53	.31	.99	1.00	.70	....	9.60	9.00	4.24	4.00	15.14	14.40
J. Bolgiano Seed Co., Balto., Md.													
Square Deal Blood Meal	Baltimore	....	....	16.10	16.00	....	....	....	....	....	....	....	....
Square Deal Bone Meal	Baltimore	....	....	3.77	3.00	....	....	*27.10	*22.00	....	....	31.34	25.20

Herbert Bryant's Son, Alexandria, Va.													
Acid Phosphate H. G.	Gaithersburg	....	....	....	....	**.80**	....	**18.00**	16.00	....	....	**14.52**	12.80
Belle Haven Ammoniated	Gaithersburg	**1.44**	1.21	**2.05**	2.00	**1.30**	....	**9.40**	8.00	**5.20**	5.00	**20.08**	18.40
Genuine Fish and Potash	Dickerson	**1.31**	1.21	**1.91**	2.00	**.95**	....	**9.45**	9.00	**2.28**	2.00	**17.16**	16.80
Genuine Fish and Potash	Gaithersburg	**1.10**	1.21	**1.71**	2.00	**.80**	....	**10.40**	9.00	**2.28**	2.00	**17.10**	16.80
Pure Animal Bone Meal	Gaithersburg	....	....	**4.64**	4.50	....	....	***22.90**	***20.00**	....	....	**32.30**	30.00
Central Chemical Co., Hagerstown, Maryland.													
"Gro-All" Dissolved Phosphate	Preston	....	....	....	....	**1.45**	....	**16.55**	16.00	....	....	**13.46**	12.80
"Gro-All" Dissolved Phosphate	Smithsburg	....	....	....	....	**.60**	....	**16.90**	16.00	....	....	**13.61**	12.80
"MBW" Acid Phosphate	Baltimore	....	....	....	....	**1.65**	....	**16.05**	16.00	....	....	**13.09**	12.80
"MBW" Acid Phosphate	Baltimore	....	....	....	....	**.60**	....	**17.20**	16.00	....	....	**13.85**	12.80
"MBW" Acid Phosphate	Baltimore	....	....	....	....	**.60**	....	**17.10**	16.00	....	....	**13.77**	12.80
"MBW" Caroline Special	Centreville	**.44**	.31	**1.02**	1.00	**.40**	....	**10.00**	10.00	**4.38**	4.00	**15.64**	15.20
"MBW" Caroline Special	Baltimore	**.29**	.31	**.99**	1.00	**.80**	....	**10.30**	10.00	**4.28**	4.00	**15.74**	15.20
"MBW" Caroline Special	Baltimore	**.45**	.31	**1.01**	1.00	**1.45**	....	**10.00**	10.00	**4.36**	4.00	**15.75**	15.20
"Gro-All" Carbo Lime Phosphate	Hancock	....	....	....	....	**.70**	....	**17.90**	13.00	....	....	**14.43**	10.40
"Gro-All" Crown Jewel	Mt. Airy	**.50**	.31	**1.01**	1.00	**1.00**	....	**9.30**	9.00	**4.24**	4.00	**15.02**	14.40
"Gro-All" Crown Jewel	Baltimore	**.62**	.31	**1.13**	1.00	**1.00**	....	**9.20**	9.00	**4.20**	4.00	**15.39**	14.40
"Gro-All" Excelsior	Frederick	**1.32**	.60	**1.66**	2.00	**.60**	....	**8.60**	8.00	**5.24**	5.00	**17.80**	18.40
"Gro-All" Excelsior	Motters	**1.43**	.60	**1.81**	2.00	**.30**	....	**9.10**	8.00	**5.32**	5.00	**18.83**	18.40
"Gro-All" Fish and Potash Compound	Hancock	**.64**	.31	**1.25**	1.25	**.55**	....	**10.15**	9.00	**4.28**	4.00	**16.62**	15.40
"Gro-All" Grain and Grass Grower	Baltimore	**1.51**	.60	**2.06**	2.00	**1.00**	....	**12.50**	12.00	**2.28**	2.00	**20.21**	19.20
"Gro-All" Grain and Grass Grower	Frederick	**1.64**	.60	**1.98**	2.00	**.95**	....	**12.35**	12.00	**2.20**	2.00	**19.70**	19.20
"Gro-All" Potash Special	Baltimore	....	....	....	....	**.95**	....	**12.95**	12.00	**5.33**	5.00	**14.80**	13.60
"Gro-All" Potash Special	Smithsburg	....	....	....	....	**.35**	....	**12.85**	12.00	**5.12**	5.00	**14.43**	13.60
"Gro-All" Potash Special	Hancock	....	....	....	....	**.50**	....	**12.80**	12.00	**5.00**	5.00	**14.32**	13.60
"Gro-All" Super-Fish	Frederick	**.99**	.60	**2.05**	2.00	**1.05**	....	**12.15**	12.00	**7.38**	6.00	**23.98**	22.40
"Gro-All" Super-Fish	Mt. Airy	**1.04**	.60	**1.98**	2.00	**1.80**	....	**12.40**	12.00	**6.36**	6.00	**23.20**	22.40
"MBW" Wheat and Grass	Preston	....	....	....	....	**.80**	....	**9.90**	10.00	**6.16**	5.00	**12.97**	12.00
L. E. P. Dennis & Son Co., Crisfield, Maryland.													
12-5	Crisfield	....	....	....	....	**.60**	....	**13.00**	12.00	**5.28**	5.00	**14.71**	13.60
2-10-5 Fish Fertilizer	Crisfield	**1.38**	.67	**2.20**	2.00	**.25**	....	**10.75**	10.00	**5.20**	5.00	**21.60**	20.00

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Valu per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Devilbiss Bros., New Windsor, Md.													
Acid Phosphate	New Windsor	....	....	....	....	**.30**	....	**19.10**	16.00	....	....	**$15.33**	$12.80
Butcher House Phosphate	New Windsor	**.89**	.30	**1.16**	1.00	**.60**	....	**11.70**	10.00	**5.72**	5.00	**18.67**	16.00
Wheat Grower	New Windsor	**.78**	.30	**1.04**	1.00	**.45**	....	**10.65**	9.00	**4.02**	3.00	**15.97**	13.60
Diamond Fert. Co., Baltimore, Md.													
All Crop Grower	North East	**1.49**	....	**2.00**	2.00	**.90**	....	**8.50**	8.00	**5.38**	5.00	**19.24**	18.40
Crop Booster	North East	**.51**	.50	**1.14**	1.00	**.95**	....	**9.65**	9.00	**4.36**	4.00	**15.91**	14.40
Dorchester Fert. Co., Cambridge, Md													
Dorco Ideal 2-12-5	Cambridge	**1.79**	1.50	**2.05**	2.00	**.55**	....	**12.85**	12.00	**5.80**	5.00	**23.20**	21.60
Dorco Ideal 2-12-5	Cambridge	**1.64**	1.50	**1.90**	2.00	**.30**	....	**12.70**	12.00	**5.24**	5.00	**22.00**	21.60
Dorco Leader 0-13-7	Cambridge	....	....	....	....	**.40**	....	**13.50**	13.00	**7.08**	7.00	**16.52**	16.00
Farmers Favorite 2-8-10	Cambridge	**1.32**	1.50	**1.66**	2.00	**.35**	....	**8.55**	8.00	**10.38**	10.00	**21.83**	22.40
Farmers Favorite 2-8-10	Cambridge	**1.14**	1.50	**1.62**	2.00	**.50**	....	**8.40**	8.00	**11.12**	10.00	**22.18**	22.40
Old Dorset 1-9-4	Cambridge	**.81**	.75	**1.01**	1.00	**.75**	....	**10.25**	9.00	**5.00**	4.00	**16.35**	14.40
Old Dorset 1-9-4	Cambridge	**.75**	.75	**1.01**	1.00	**.55**	....	**10.15**	9.00	**5.04**	4.00	**16.27**	14.40
Old Glory 0-12-5	Cambridge	....	....	....	....	**.35**	....	**13.05**	12.00	**5.24**	5.00	**14.68**	13.60
Old Glory 0-12-5	Cambridge	....	....	....	....	**.80**	....	**13.20**	12.00	**5.12**	5.00	**14.78**	13.60
Dorchester 0-12-6	Cambridge	....	....	....	....	**.40**	....	**12.00**	12.00	**6.20**	6.00	**14.62**	14.40
Our Special 2-8-5	Cambridge	**1.52**	1.25	**1.78**	2.00	**.45**	....	**8.75**	8.00	**5.24**	5.00	**18.38**	18.40
Our Special 2-8-5	Cambridge	**1.74**	1.50	**1.91**	2.00	**.50**	....	**8.50**	8.00	**5.64**	5.00	**19.03**	18.40

Edelen Bros., Baltimore, Md.													
Red Tobacco Guano	Baltimore	**2.22**	.60	**2.56**	3.00	**.60**	....	**9.40**	8.00	**6.30**	6.00	**22.89**	23.20
Wheat and Grain Mixture	Baltimore	**.46**	.31	**1.01**	1.00	**1.30**	....	**10.00**	9.00	**4.34**	4.00	**15.71**	14.40
Wheat and Grain Mixture	Baltimore	**.63**	.31	**.99**	1.00	**1.20**	....	**9.60**	9.00	**4.00**	4.00	**15.02**	14.40
Wheat and Grain Mixture	Baltimore	**.60**	.31	**.99**	1.00	**.95**	....	**9.05**	9.00	**4.36**	4.00	**14.83**	14.40
Wheat and Grain Mixture	Baltimore	**.14**	.31	**.99**	1.00	**.85**	....	**9.05**	9.00	**4.08**	4.00	**14.59**	14.40
Wheat and Grain Mixture	Baltimore	**.65**	.31	**1.13**	1.00	**.80**	....	**9.20**	9.00	**4.28**	4.00	**15.42**	14.40
Excell Laboratories, Chicago, Ill.													
Zenke's "New Plant Life"	Baltimore	....	....	**1.71**	1.71	....	....	***.80**	*1.10	**.52**	.54	**7.74**	7.93
Farmers Fertilizer & Feed Co., Westminster, Md.													
Super Phosphate 0-16%-0	Westminster	....	....	....	....	**1.00**	....	**18.60**	16.00	....	....	**15.03**	12.80
Acid and Potash 0-12-5	Westminster	....	....	....	....	**.55**	....	**13.65**	12.00	**5.28**	5.00	**15.22**	13.60
Farmers Favorite 1-10-5	Westminster	**.71**	.60	**1.02**	1.00	**.40**	....	**11.80**	10.00	**5.12**	5.00	**17.68**	16.00
Potato Grower 2-8-5	Westminster	**1.67**	....	**2.01**	2.00	**.85**	....	**9.15**	8.00	**5.28**	5.00	**19.71**	18.40
XX Fertilizer 1-9-3	Westminster	**.77**	....	**1.08**	1.00	**1.55**	....	**10.35**	9.00	**3.16**	3.00	**15.36**	13.60
XXX Fertilizer 1-9-4	Westminster	**.75**	....	**1.13**	1.00	**.75**	....	**10.15**	9.00	**4.38**	4.00	**16.25**	14.40
Farmers & Planters Co., Salisbury, Maryland.													
Rock and Kainit	Salisbury	....	....	....	....	**.55**	....	**6.05**	7.00	**7.44**	5.00	**10.87**	9.60
Rock and Kainit	Salisbury	....	....	....	....	**.35**	....	**6.35**	7.00	**6.72**	5.00	**10.51**	9.60
Special Fish Mixture	Salisbury	**1.91**	1.52	**2.37**	2.00	**.95**	....	**8.05**	8.00	**5.20**	5.00	**20.22**	18.40
Special Fish Mixture	Salisbury	**2.28**	1.52	**2.59**	2.00	**.90**	....	**9.10**	8.00	**5.38**	5.00	**22.08**	18.40
Special Potash Mixture	Salisbury	....	....	....	....	**1.45**	....	**11.85**	12.00	**6.56**	5.00	**14.95**	13.60
Fertol Company, Washington, D. C.													
Carbium Plant Food	College Park	**2.13**	....	**3.39**	2.00	**1.83**	....	**2.27**	4.00	**3.94**	3.00	**18.80**	13.60
Goulard & Olena, Inc., New York, New York.													
Lawn Fertilizer	Baltimore	**3.47**	....	**5.01**	5.00	**.70**	....	**10.50**	10.00	....	....	**28.55**	28.00
Ground Bone	Baltimore	....	....	**1.99**	3.00	....	....	***31.90**	*22.89	....	....	**27.10**	25.73

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Griffith & Boyd Co., Baltimore, Md.													
Fish and Potash Guano	Baltimore	**1.24**	....	**1.89**	1.75	**.55**	....	**10.35**	10.00	**3.84**	3.00	**$18.99**	$17.40
Fish and Potash Guano	Baltimore	**1.15**	....	**1.83**	1.75	**.55**	....	**10.75**	10.00	**3.36**	3.00	**18.69**	17.40
General Crop Grower	Baltimore	**1.28**	.48	**2.08**	2.00	**.60**	....	**9.60**	9.00	**3.34**	3.00	**18.76**	17.60
Pure Fine Ground Bone Meal	Baltimore	....	....	**4.69**	4.50	....	....	***21.90**	*20.00	....	....	**31.90**	30.00
Royal Potash Guano	Baltimore	**.51**	.24	**1.11**	1.00	**.70**	....	**9.00**	9.00	**4.24**	4.00	**15.14**	14.40
Royal Potash Guano	Baltimore	**.54**	.24	**1.19**	1.00	**.75**	....	**9.15**	9.00	**4.30**	4.00	**15.63**	14.40
Royal Potash Guano	Baltimore	**.66**	.24	**1.04**	1.00	**.75**	....	**9.05**	9.00	**4.24**	4.00	**14.90**	14.40
Special Grain Grower	Baltimore	....	....	....	....	**.40**	....	**12.40**	12.00	**5.64**	5.00	**14.49**	13.60
Special Grain Grower	Baltimore	....	....	....	....	**.45**	....	**12.15**	12.00	**5.36**	5.00	**14.08**	13.60
Special Guano	Baltimore	**1.10**	.48	**2.18**	2.00	**.50**	....	**8.50**	8.00	**5.36**	5.00	**19.89**	18.40
Special Guano	Baltimore	**1.22**	.48	**2.17**	2.00	**.40**	....	**8.80**	8.00	**5.16**	5.00	**19.91**	18.40
Spring Crop Grower	Baltimore	**2.06**	.60	**2.96**	2.50	**.60**	....	**8.20**	8 00	**4.08**	4.00	**21.75**	19.60
XX Potash Manure	Baltimore	....	....	....	....	**.40**	....	**10.70**	10.00	**5.32**	5.00	**12.88**	12.00
XX Potash Manure	Baltimore	....	....	....	....	**.40**	....	**10.60**	10.00	**5.52**	5.00	**12.96**	12.00
XX Potash Manure	Baltimore	....	....	....	....	**.55**	....	**10.15**	10.00	**5.68**	5.00	**12.74**	12.00
Griffith & Turner Co., Balto., Md.													
Ammoniated Alkaline Plant Food	Baltimo e	**.67**	.24	**1.11**	1.00	**.60**	....	**6.70**	6.50	**1.68**	1.50	**11.23**	10.40
Ammoniated Butcher's Bone	Baltimore	**.52**	.31	**1.07**	1.25	**.40**	....	**9.70**	9.00	**1.64**	1.50	**13.41**	13.40
Animal Bone Phosphate	Baltimore	**2.08**	.60	**3.09**	2.50	**2.20**	....	**8.90**	10.00	**2.84**	1.50	**22.08**	19.20
Soft Ground Bone	Baltimore	....	....	**3.83**	3.00	....	....	***12.20**	*11.00	....	....	**22.64**	18.60
Special Potato Guano	Baltimore	**.61**	.24	**1.02**	1.00	**.80**	....	**9.00**	9.00	**4.68**	4.00	**15 14**	14.40
Special Truck Mixture	Baltimore	**2.31**	.97	**3.35**	4 00	**.35**	....	**9.05**	8.00	**6.00**	6.00	**25.49**	27.20

Hampstead Fert. Co., Hampstead, Md.														
Acid Phosphate 0-16-0	Hampstead	....	....	....	....	.25	....	19.55	16.00	....	....	15.68	12.80
1-8-4	Hampstead	.71	.49	1.02	1.00	1.20	....	8.00	8.00	4.32	4.00	14.12	13.60
2-8-5	Hampstead	1.47	1.00	1.91	2.00	.50	....	9.50	8.00	5.32	5.00	19.53	18.40
2-8-10	Hampstead	1.44	1.00	1.78	2.00	.30	....	9.00	8.00	10.30	10.00	22.61	22.40
Horsey, Roe & Co., Greensboro, Md.														
Corn Grower 0-8-7	Greensboro	....	....	....	....	.20	....	9.30	8.00	8.36	7.00	14.16	12.00
Corn Grower 0-8-7	Greensboro	....	....	....	....	.05	....	8.85	8.00	8.40	7.00	13.81	12.00
Crop Grower 1-9-4	Greensboro	.70	.50	1.09	1.00	.45	....	9.25	9.00	5.52	4.00	16.25	14.40
Crop Grower 1-9-4	Greensboro	.73	.50	1.00	1.00	.55	....	11.75	9.00	2.20	4.00	15.24	14.40
2-8-5	Greensboro	2.31	1.00	2.65	2.00	.35	....	7.45	8.00	5.38	5.00	20.91	18.40
2-8-5	Greensboro	1.74	1.00	2.05	2.00	.45	....	8.85	8.00	5.98	5.00	20.13	18.40
0-12-5	Greensboro	....	....	....	....	.15	....	13.75	12.00	5.24	5.00	15.21	13.60
0-12-5	Greensboro	....	....	....	....	.15	....	12.55	12.00	5.28	5.00	14.28	13.60
Hubbard Fert. Co., Baltimore, Md.														
Super Phosphate 0-16-0	Baltimore	....	....	....	....	1.05	....	16.85	16.00	....	....	13.64	12.80
Super Phosphate 0-16-0	Baltimore	....	....	....	....	.95	....	16.85	16.00	....	....	13.62	12.80
Super Phosphate 0-16-0	Woodsboro	....	....	....	....	.85	....	17.25	16.00	....	....	13.93	12.80
Alkaline 0-12-5	Baltimore	....	....	....	....	.90	....	17.20	16.00	....	....	13.90	12.80
Alkaline 0-12-5	Baltimore	....	....	....	....	.65	....	12.45	12.00	5.76	5.00	14.67	13.60
Alkaline 0-12-5	Baltimore	....	....	....	....	.95	....	12.65	12.00	5.12	5.00	14.36	13.60
Alkaline 0-12-5	Baltimore	....	....	....	....	.70	....	12.30	12.00	5.34	5.00	14.22	13.60
1-9-4 Fertilizer	Baltimore	....	....	....	....	.60	....	12.20	12.00	5.04	5.00	13.88	13.60
1-9-4 Fertilizer	Baltimore	.46	....	1.09	1.00	.75	....	9.00	9.00	4.26	4.00	15.08	14.40
1-9-4 Fertilizer	Woodsboro	.61	....	.99	1.00	.75	....	9.00	9.00	4.34	4.00	14.74	14.40
Jersey Trucker 2-8-10	Baltimore	.60	....	1.01	1.00	.70	....	9.90	9.00	4.28	4.00	15.49	14.40
Money Maker Fertilizer 2-8-5	Baltimore	1.64	1.00	2.05	2.00	1.75	....	7 35	8.00	10.34	10.00	22.61	22.40
Money Maker Fertilizer 2-8-5	Baltimore	1.55	1.00	1.98	2.00	.60	....	9.00	8.00	5.04	5.00	19.24	18.40
Money Maker Fertilizer 2-8-5	Baltimore	1.38	1.00	1.81	2.00	.60	....	8.50	8.00	5.16	5.00	18.26	18.40
Money Maker Fertilizer 2-8-5	White Hall	1.31	1.00	1.82	2.00	.55	....	8.55	8.00	5.04	5.00	18.23	18.40
Muriate of Potash	Baltimore	1.56	1.00	2.00	2.00	.70	....	8.40	8.00	5.28	5.00	19.05	18.40
Muriate of Potash	Baltimore	....	....	....	....	....	....	....	....	52.10	50.00	....	....
Animal Tankage 9%	Baltimore	....	....	....	....	....	....	....	....	52.60	50.00	....	....
Animal Tankage 9%	Baltimore	....	....	10.04	9.00	....	....	*11.40	*4.00	....	....	47.00	38.40
2-12-4 Fertilizer	Elkton	....	....	9.66	9.00	....	....	*12.10	*4.00	....	....	45.90	38.40
		1.61	....	2.00	2.00	.70	....	12.80	12.00	4.78	4.00	22.17	20.80

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Independent Manufacturing Co., Philadelphia, Pa.													
Special Florists' Bone Meal	Snow Hill	....	....	**2.68**	3.00	....	....	***28.70**	*22.88	....	....	$27.94	$25.73
Maryland Milling & Supply Co., Sykesville, Md.													
"1927" Mixture	Sykesville	**1.81**	....	**2.00**	2.00	**.05**	....	**13.75**	12.00	**5.30**	5.00	**23.25**	21.60
Newman's Favorite	Sykesville	**1.34**	....	**1.82**	2.00	**.70**	....	**8.90**	8.00	**5.84**	5.00	**19.18**	18.40
Phosphate and Potash	Sykesville	....	....	....	....	**1.25**	....	**12.35**	12.00	**5.00**	5.00	**14.07**	13.60
Warfield's "Special"	Sykesville	**.65**	....	**.99**	1.00	**.80**	....	**8.60**	8.00	**5.90**	4.00	**15.68**	13.60
Massey & Wilmer, Chestertown, Md.													
Super Phosphate 0-16-0	Chestertown	....	....	....	....	**.45**	....	**18.65**	16.00	....	....	**14.99**	12.80
Crop Producer Super Phosphate 1-9-4	Chestertown	**.65**	....	**.99**	1.00	**.70**	....	**10.20**	9.00	**4.00**	4.00	**15.43**	14.40
Crop Producer Super Phosphate 1-9-4	Chestertown	**.21**	....	**1.06**	1.00	**.55**	....	**10.85**	9.00	**4.00**	4.00	**16.20**	14.40
0-10-5 Super Phosphate	Chestertown	....	....	....	....	**1.15**	....	**9.95**	10.00	**5.34**	5.00	**12.40**	12.00
0-12-5 Super Phosphate	Chestertown	....	....	....	....	**1.00**	....	**12.30**	12.00	**5.32**	5.00	**14.25**	13.60
0-12-5 Super Phosphate	Chestertown	....	....	....	....	**.58**	....	**12.97**	12.00	**5.78**	5.00	**15.09**	13.60
Trustworthy Super Phosphate 2-8-5	Chestertown	**1.66**	1.21	**2.00**	2.00	**1.20**	....	**8.80**	8.00	**5.04**	5.00	**19.25**	18.40
Trustworthy Super Phosphate 2-8-5	Chestertown	**.92**	.97	**1.76**	2.00	**1.25**	....	**8.25**	8.00	**5.74**	5.00	**18.42**	18.40
Medford Fert. Works, Medford, Md.													
1-8-5	Medford	**.50**	.25	**1.06**	1.00	**.80**	....	**9.10**	8.00	**5.38**	5.00	**15.94**	14.40
1-10-5	Medford	**.58**	.25	**.99**	1.00	**.60**	....	**11.50**	10.00	**6.74**	5.00	**18.64**	16.00
2-8-5	Medford	**1.10**	.25	**1.49**	2.00	**.45**	....	**9.85**	8.00	**5.24**	5.00	**18.10**	18.40

Miller Fertilizer Co., Baltimore, Md.													
Super Phosphate 0-16-0	Rockville	....	....	....	....	**1.20**	....	**16.20**	16.00	....	....	**13.14**	12.80
Super Phosphate 0-16-0	Walkersville	....	....	....	....	**.90**	....	**16.90**	16.00	....	....	**13.66**	12.80
Farmer's Profit 2-10-4	Baltimore	**1.26**	1.00	**1.98**	2.00	**.90**	....	**10.70**	10.00	**4.08**	4.00	**19.88**	19.20
Farmer's Profit 2-10-4	Baltimore	**1.43**	1.00	**1.98**	2.00	**.85**	....	**10.25**	10.00	**4.08**	4.00	**19.51**	19.20
Grass and Grain 2-9-3	Rockville	**1.57**	1.00	**2.05**	2.00	**1.10**	....	**9.20**	9.00	**4.20**	3.00	**19.09**	17.60
Harvest Queen 1-9-4	Preston	**.60**	....	**1.01**	1.00	**1.20**	....	**8.80**	9.00	**4.32**	4.00	**14.72**	14.40
Harvest Queen 1-9-4	Linwood	**.65**	....	**.99**	1.00	**.65**	....	**9.65**	9.00	**4.24**	4.00	**15.17**	14.40
Harvest Queen 1-9-4	Hagerstown	**.72**	....	**.99**	1.00	**.55**	....	**9.95**	9.00	**4.20**	4.00	**15.36**	14.40
1-12-5	Baltimore	**.65**	....	**1.04**	1.00	**.90**	....	**9.00**	9.00	**4.36**	4.00	**14.99**	14.40
Lime Phosphate 0-13-0	Walkersville	**.82**	....	**1.06**	1.00	**.70**	....	**13.00**	12.00	**5.36**	5.00	**19.04**	17.60
Pimlico 2-8-10	Baltimore	....	....	....	....	**.80**	....	**13.05**	13.00	....	....	**10.56**	10.40
Pure Ground Raw Bone	Linwood	**1.54**	1.00	**1.93**	2.00	**2.00**	....	**7.10**	8.00	**11.04**	10.00	**22.53**	22.40
2-8-5	Rising Sun	....	....	**4.69**	4.50	....	....	***24.10**	*21.50	....	....	**33.22**	30.90
2-8-5	Rockville	**1.67**	1.00	**2.05**	2.00	**.80**	....	**9.00**	8.00	**5.32**	5.00	**19.78**	18.40
0-12-5	Woodbine	**1.60**	1.00	**2.06**	2.00	**.30**	....	**8.50**	8.00	**5.12**	5.00	**19.19**	18.40
0-12-5	Baltimore	....	....	....	....	**.80**	....	**12.30**	12.00	**5.32**	5 00	**14.22**	13.60
0-12-5	Baltimore	....	....	....	....	**.65**	....	**12.25**	12.00	**5.36**	5.00	**14.19**	13.60
2-12-4	Baltimore	....	....	....	....	**.75**	....	**12.00**	12.00	**5.28**	5.00	**13.93**	13.60
Scott's Tip Top Soluble Phos. 0-16-0	Woodbine	**1.57**	1.00	**2.00**	2.00	**.65**	....	**12.95**	12.00	**4.32**	4.00	**21.92**	20.80
Scott's Pot. and Truck Special 2-8-5	Elkton	....	....	....	....	**1.55**	....	**17.15**	16.00	....	....	**13.95**	12.80
Scott's Pot. and Truck Special 2-8-5	Baltimore	**1.47**	1.00	**2.05**	2.00	**.60**	....	**8.00**	8.00	**5.30**	5.00	**18.93**	18.40
Scott's Pot. and Truck Special 2-8-5	Elkton	**1.36**	1.00	**1.91**	2.00	**.50**	....	**9.00**	8.00	**5.12**	5.00	**19.02**	18.40
Scott's Pot. and Truck Special 2-8-5	Rising Sun	**1.43**	1.00	**1.98**	2.00	**.30**	....	**8.80**	8.00	**5.32**	5.00	**19.27**	18.40
Scott's Sure Growth Super Phos. 2-9-3	Baltimore	**1.51**	1.00	**1.95**	2.00	**.40**	....	**8.90**	8.00	**5.28**	5.00	**19.20**	18.40
Scott's Soluble Phos. and Pot. 0-12-5	Elkton	**1.29**	1.00	**1.89**	2.00	**.60**	....	**9.70**	9.00	**3.24**	3.00	**18.00**	17.60
Scott's Special Grain Grower 1-9-4	Elkton	....	....	....	....	**.60**	....	**12.70**	12.00	**5.00**	5.00	**14.25**	13.60
	Elkton	**.51**	....	**.99**	1.00	**.65**	....	**9.45**	9.00	**4.36**	4.00	**15.11**	14.40
Fred. Mehring Fert. Works, Inc., Keymar, Md.													
Acid Phosphate	Keymar	....	....	....	....	**1.70**	....	**16.20**	16.00	....	....	**13.22**	12.80
Big Four	Keymar	**.66**	.62	**1.02**	1.00	**2.40**	....	**7.90**	9.00	**5.14**	4.00	**14.87**	14.40
Mammoth Truck Grower	Keymar	**1.67**	1.30	**1.98**	2.00	**1.75**	....	**7.65**	8.00	**5.34**	5.00	**18.57**	18.40
Potash Mixture	Keymar	....	....	....	....	**.80**	....	**12.30**	12.00	**5.32**	5.00	**14.22**	13.60

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
G. Ober & Sons Co., Baltimore, Md.													
Super Phosphate H. G.	Baltimore	....	....	....	....	**.15**	....	**17.85**	16.00	....	....	**$14.30**	$12.80
Super Phosphate H. G.	Baltimore	....	....	....	....	**.20**	....	**17.10**	16.00	....	....	**13.71**	12.80
Bone Mixture	Baltimore	**.46**	1.60	**1.36**	2.00	....	....	***7.50**	*9.00	**5.96**	5.00	**14.71**	17.40
Bone Mixture	Baltimore	**.61**	1.60	**1.57**	2.00	....	....	***8.50**	*9.00	**5.24**	5.00	**15.57**	17.40
Bone Mixture	Baltimore	**1.16**	1.60	**1.98**	2.00	....	....	***9.70**	*9.00	**5.12**	5.00	**17.84**	17.40
Kainit	Baltimore	....	....	....	....	....	....	....	....	**21.18**	12.40	....	....
Golden Top Wheat and Corn Grower	Baltimore	**1.43**	1.60	**2.01**	2.00	**2.10**	....	**12.60**	12.00	**4.30**	4.00	**21.88**	20.80
Muriate of Potash	Baltimore	....	....	....	....	....	....	....	....	**50.00**	50.00	....	....
Refined Ground Bone	Baltimore	....	....	**4.50**	4.50	....	....	***21.90**	*21.00	....	....	**31.14**	30.60
Special Plant Food	Baltimore	**1.45**	1.60	**2.00**	2.00	**1.40**	....	**9.40**	9.00	**5.08**	5.00	**19.79**	19.20
Special Plant Food	Baltimore	**1.66**	1.60	**2.00**	2.00	**1.30**	....	**8.90**	9.00	**5.20**	5.00	**19.48**	19.20
Special Plant Food	Baltimore	**1.24**	1.60	**1.79**	2.00	**1.20**	....	**9.30**	9.00	**5.16**	5.00	**18.91**	19.20
Stag Guano	Baltimore	**.68**	.80	**1.02**	1.00	**1.30**	....	**9.50**	9.00	**4.20**	4.00	**15.24**	14.40
Stag Guano	Baltimore	**.89**	.80	**1.16**	1.00	**1.45**	....	**9.05**	9.00	**4.34**	4.00	**15.57**	14.40
Stag Guano	Baltimore	**.58**	.80	**.99**	1.00	**1.15**	....	**9.75**	9.00	**4.28**	4.00	**15.35**	14.40
Super Wheat and Grain Grower	Baltimore	**2.48**	2.40	**2.93**	3.00	**2.00**	....	**12.10**	12.00	**3.20**	3.00	**24.26**	24.00
Super Wheat and Grain Grower	Baltimore	**2.55**	2.40	**2.99**	3.00	**2.00**	....	**12.10**	12.00	**3.20**	3.00	**24.50**	24.00
Swan "E" Fish Guano	Baltimore	**1.64**	1.60	**1.98**	2.00	**1.20**	....	**9.70**	9.00	**3.32**	3.00	**18.52**	17.60
Swan "E" Fish Guano	Baltimore	**1.89**	1.60	**2.15**	2.00	**1.05**	....	**9.25**	9.00	**3.16**	3.00	**18.69**	17.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**1.80**	....	**12.20**	12.00	**5.38**	5.00	**14.33**	13.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**1.40**	....	**12.50**	12.00	**5.00**	5.00	**14.21**	13.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**1.10**	....	**13.10**	12.00	**5.08**	5.00	**14.71**	13.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**1.50**	....	**12.90**	12.00	**5.24**	5.00	**14.74**	13.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**1.15**	....	**13.75**	12.00	**5.12**	5.00	**15.27**	13.60

Pacific Manure & Fertilizer Co., San Francisco, Calif.													
Groz-it Brand Sheep Manure	Baltimore	....	....	**2.35**	1.80	....	....	***.85**	*1.25	**2.38**	3.00	**11.81**	10.35
Patuxent Guano Co., Balto., Md.													
Champion Fertilizer	Baltimore	**1.71**	1.02	**2.05**	2.00	**.85**	....	**8.45**	8.00	**5.12**	5.00	**19.19**	18.40
Champion Fertilizer	Baltimore	**1.63**	1.02	**2.06**	2.00	**.70**	....	**8.40**	8.00	**5.32**	5.00	**19.33**	18.40
Champion Fertilizer	Baltimore	**1.57**	1.02	**2.08**	2.00	**.70**	....	**8.60**	8.00	**5.04**	5.00	**19.34**	18.40
Grain and Clover Producer	Baltimore	**.59**	.31	**1.02**	1.00	**1.10**	....	**8.30**	8.00	**5.72**	5.00	**15.47**	14.40
Grain and Clover Producer	Baltimore	**.90**	.31	**1.19**	1.00	**.90**	....	**8.90**	8.00	**5.24**	5.00	**16.21**	14.40
Potash Mixture	Baltimore	....	....	....	....	**1.00**	....	**13.10**	12.00	**5.38**	5.00	**14.93**	13.60
Tip Top Fertilizer	Baltimore	**1.50**	1.00	**1.98**	2.00	**.40**	....	**9.10**	8.00	**10.24**	10.00	**23.45**	22.40
Peerless Fert. Co., Chestertown, Md													
Bone Special	Chestertown	....	....	**.51**	.50	**1.05**	....	**10.30**	10.00	**4.36**	4.00	**13.93**	13.20
Bone Special	Chestertown	....	....	**.53**	.50	**.15**	....	**11.05**	10.00	**4.16**	4.00	**14.31**	13.20
Half and Half Rock and Kainit	Chestertown	....	....	....	....	**.15**	....	**9.75**	8.00	**5.66**	6.00	**12.35**	11.20
Imperial Compound	Chestertown	**.68**	.48	**1.06**	1.00	**.50**	....	**9.90**	9.00	**4.32**	4.00	**15.70**	14.40
Imperial Compound	Chestertown	**.84**	.48	**1.11**	1.00	**.20**	....	**9.40**	9.00	**4.32**	4.00	**15.45**	14.40
Peerless 2-8-5	Chestertown	**1.63**	.90	**1.90**	2.00	**.30**	....	**8.50**	8.00	**5.34**	5.00	**18.72**	18.40
2-12-4 Fertilizer	Chestertown	**1.45**	.90	**1.83**	2.00	**.25**	....	**12.75**	12.00	**4.36**	4.00	**21.05**	20.80
12 and 5 Low Grade	Chestertown	....	....	....	....	**1.10**	....	**12.20**	12.00	**5.64**	5.00	**14.44**	13.60
12 and 5 Low Grade	Chestertown	....	....	....	....	**.35**	....	**14.95**	12.00	**5.32**	5.00	**16.27**	13.60
Piedmont-Mt. Airy Guano Co., Baltimore, Md.													
4-16-4	Woodsboro	**3.14**	1.31	**3.67**	4.00	**.60**	....	**16.50**	16.00	**5.04**	4.00	**32.00**	32.00
Harvest Queen	Mt. Airy	**.43**	.32	**.89**	1.00	**1.15**	....	**7.75**	8.00	**4.36**	4.00	**13.42**	13.60
1-9-3 Fertilizer	Mt. Airy	**.88**	.32	**1.02**	1.00	**1.30**	....	**8.90**	9.00	**3.20**	3.00	**13.96**	13.60
Perfection Guano	Baltimore	**1.40**	.67	**1.95**	2.00	**.85**	....	**8.55**	8.00	**5.20**	5.00	**18.93**	18.40
Perfection Guano	Mt. Airy	**1.53**	.67	**2.01**	2.00	**1.70**	....	**8.00**	8.00	**5.32**	5.00	**18.96**	18.40
Peerless Phosphate	Mt. Airy	**.60**	.32	**.99**	1.00	**2.55**	....	**8.25**	8.00	**3.58**	3.00	**13.80**	12.80
Unexcelled Guano	Mt. Airy	**3.23**	1.25	**3.78**	4.00	**.90**	....	**8.20**	8.00	**4.00**	4.00	**25.02**	25.60
Plant Products Co., Baltimore, Md.													
Plantabbs	Baltimore	....	....	**13.76**	13.35	....	....	***20.40**	*17.00	**26.40**	20.00	**88.40**	79.60

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Ramsburg Fertilizer Co., Inc., Frederick, Md.													
Super Phosphate	Frederick	....	....	....	....	**.70**	....	**16.90**	16.00	....	....	$13 63	$12.80
Ammoniated Bone Phosphate	Frederick	**.60**	....	**1.04**	1.00	**1.05**	....	**12.95**	10.00	**3.36**	3.00	**17.37**	14.40
Excelsior Plant Food	Frederick	**1.11**	.85	**2.00**	2.00	**.90**	....	**13.20**	12.00	**2.32**	2.00	**20.56**	19.20
Excelsior Plant Food	Frederick	**1.71**	.85	**2.15**	2.00	**1.00**	....	**10.75**	12.00	**2.82**	2.00	**19.61**	19.20
Old Virginia Compound	Frederick	**.36**	.85	**.99**	1.00	**.60**	....	**13.70**	10.00	**3.96**	5.00	**18.18**	16.00
Special Rock and Potash	Frederick	....	....	....	....	**1.70**	....	**14.00**	12.00	**5.00**	5.00	**15.46**	13.60
Rasin-Monumental Co., Balto., Md.													
Double National Brand	Baltimore	**1.62**	.78	**2.15**	2.00	**.95**	....	**16.65**	16.00	**8.24**	8.00	**28.65**	27.20
H. G. Potash Mixture	Baltimore	....	....	....	....	**2.15**	....	**12.15**	12.00	**5.04**	5.00	**14.07**	13.60
Reindollar Co., Taneytown, Md.													
Acid Phosphate	Taneytown	....	....	....	....	**1.70**	....	**16.30**	16.00	....	....	**13.30**	12.80
Grain Grower	Taneytown	**1.19**	....	**2.05**	2.00	**.60**	....	**12.70**	10.00	**5.32**	5.00	**22.71**	20.00
Rock and Potash	Taneytown	....	....	....	....	**.55**	....	**15.45**	12.00	**6.36**	6.00	**17.53**	14.40
F. S. Royster Guano Co., Balto., Md.													
Bully Guano	Rockville	**1.17**	1.33	**1.89**	2.00	**.85**	....	**8.25**	8.00	**5.32**	5.00	**18.55**	18.40
Fish, Flesh and Fowl	Washington Grove	**1.37**	1.33	**1.98**	2.00	**1.00**	....	**9.30**	9.00	**3.24**	3.00	**18.10**	17.60
Nitrate of Soda	Baltimore	....	....	**19.12**	18.24	....	....	....	....	....	....	....	....
Phosphate and Potash	Baltimore	....	....	....	....	**1.95**	....	**11.85**	12.00	**5.32**	5.00	**14.03**	13.60
Phosphate and Potash	Baltimore	....	....	....	....	**2.05**	....	**12.05**	12.00	**5.36**	5.00	**14.24**	13.60
Rational Guano	Baltimore	**.46**	.66	**1.09**	1.00	**1.35**	....	**9.05**	9.00	**4.38**	4.00	**15.30**	14.40
Rational Guano	Washington Grove	**.61**	.66	**.99**	1.00	**1.75**	....	**9.15**	9.00	**4.64**	4.00	**15.25**	14.40
Sulphate of Ammonia	Baltimore	....	....	**25.34**	25.00	....	....	....	....	....	....	....	....
Vim Guano	Rockville	**1.28**	1.33	**1.76**	2.00	**.65**	....	**13.25**	12.00	**2.12**	2.00	**19.44**	19.20

R. H. Slingluff Fertilizer Co., Baltimore, Md.													
Acid Phosphate	Baltimore	....	....	....	....	**1.15**	....	**16.25**	16.00	....	....	**13.17**	12.80
Acid Phosphate	Baltimore	....	....	....	....	**1.50**	....	**16.40**	16.00	....	....	**13.35**	12.80
General Crop Grower	Baltimore	....	....	....	....	**1.93**	....	**15.77**	16.00	....	....	**12.91**	12.80
General Crop Grower	Baltimore	**1.71**	.60	**2.10**	2.00	**1.70**	....	**8.30**	8.00	**3.56**	3.00	**18.15**	16.80
Grain and Grass Grower	Baltimore	**1.62**	.60	**2.00**	2.00	**.85**	....	**8.25**	8.00	**3.38**	3.00	**17.43**	16.80
Harvest Queen	Baltimore	**1.61**	.60	**2.00**	2.00	**.95**	....	**10.25**	10.00	**4.46**	4.00	**19.91**	19.20
		.74	....	**1.13**	1.00	**.95**	....	**9.25**	9.00	**4.12**	4.00	**15.36**	14.40
Stimuplant Laboratories, Inc., Long Island City, N. Y													
Stim-U-plant	Baltimore	....	....	**12.62**	13.37	**.15**	....	**14.35**	12.00	**16.56**	15.00	**75.23**	75.08
Stumpp & Walter Co., Balto., Md.													
Nitrate of Soda	Baltimore	....	....	**18.78**	18.25	....	....	....	....	....	....	....	....
Raw Bone Fertilizer	Baltimore	....	....	**4.97**	4.50	....	....	***21.60**	*20.00	....	....	**32.84**	30.00
Sawco Emerald Grass Fertilizer	Baltimore	**3.16**	2.92	**3.54**	3.65	**.30**	....	**6.20**	5.00	**3.39**	3.00	**21.88**	21.00
Sawco Garden and Tree Plant Food	Baltimore	....	....	**19.46**	18.24	**.05**	....	**31.85**	30.00	**13.50**	15.00	**114.13**	108.96
Sawco Shredded Cattle Manure	Baltimore	....	....	**2.47**	2.10	....	....	***1.50**	*1.00	**1.16**	1.00	**11.71**	9.80
Sawco Pulverized Sheep Manure	Baltimore	....	....	**2.99**	2.43	....	....	***2.40**	*1.00	**2.04**	2.00	**15.03**	11.92
Summers Fert. Co., Inc., Balto., Md.													
"Best on Earth" 2-12-4 Fertilizer	Sykesville	**1.57**	1.00	**2.10**	2.00	**.63**	....	**12.02**	12.00	**4.30**	4.00	**21.55**	20.80
Swift & Co., Baltimore, Md.													
Red Steer 4-16-4	Baltimore	**3.79**	2.60	**3.99**	4.00	**.35**	....	**16.45**	16.00	**4.34**	4.00	**32.64**	32.00
Red Steer 1-9-4	Baltimore	**.77**	.60	**1.04**	1.00	**.30**	....	**9.70**	9.00	**4.24**	4.00	**15.36**	14.40
Red Steer 1-9-4	Preston	**.94**	.60	**1.14**	1.00	**.45**	....	**9.45**	9.00	**4.36**	4.00	**15.68**	14.40
Red Steer 2-8-5	Cockeysville	**.85**	.60	**1.02**	1.00	**.35**	....	**9.75**	9.00	**4.30**	4.00	**15.37**	14.40
Red Steer 2-8-5	Baltimore	**1.62**	1.21	**2.05**	2.00	**.50**	....	**8.50**	8.00	**5.32**	5.00	**19.34**	18.40
Red Steer 2-12-4	Baltimore	**1.72**	1.21	**2.13**	2.00	**.50**	....	**8.50**	8.00	**5.24**	5.00	**19.59**	18.40
Red Steer 2-12-4	Baltimore	**1.53**	1.21	**1.80**	2.00	**.70**	....	**12.00**	12.00	**4.30**	4.00	**20.35**	20.80
Red Steer 2-12-4	Baltimore	**1.60**	1.21	**1.98**	2.00	**.60**	....	**12.40**	12.00	**4.28**	4.00	**21.35**	20.80
Red Steer 2-16-8	Baltimore	**1.66**	1.21	**2.00**	2.00	**.60**	....	**12.60**	12.00	**4.68**	4.00	**21.91**	20.80
Red Steer 2-16-8	Baltimore	**1.76**	1.21	**2.00**	2.00	**.40**	....	**17.00**	16.00	**8.76**	8.00	**28.67**	27.20
		1.76	1.21	**2.00**	2.00	**.35**	....	**17.05**	16.00	**8.20**	8.00	**28.25**	27.20

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Swift & Co., Balto., Md., (Continued)													
Red Steer 2-16-8	Baltimore	**1.83**	1.21	**2.10**	2.00	**.45**	....	**16.05**	16.00	**8.38**	8.00	**$28.01**	$27.20
Red Steer 2-16-8	Baltimore	**1.74**	1.21	**1.98**	2.00	**.40**	....	**15.90**	16.00	**8.00**	8.00	**27.10**	27.20
Red Steer 0-12-5	Baltimore	....	....	....	....	**.80**	....	**12.60**	12.00	**5.34**	5.00	**14.47**	13.60
Red Steer 0-12-5	Baltimore	....	....	....	....	**.60**	....	**12.30**	12.00	**5.62**	5.00	**14.43**	13.60
Thomas & Co., Gaithersburg, Md.													
Acid Phosphate	Frederick	....	....	....	....	**.90**	....	**19.10**	16.00	....	....	**15.42**	12.80
Acid Phosphate	Gaithersburg	....	....	....	....	**.50**	....	**18.70**	16.00	....	....	**15.04**	12.80
Alkaline Bone	Gaithersburg	....	....	....	....	**1.00**	....	**14.20**	12.00	**3.78**	5.00	**14.53**	13.60
Alkaline Bone	Sellman	....	....	....	....	**1.15**	....	**13.05**	12.00	**3.80**	5.00	**13.65**	13.60
Alkaline Bone	Union Bridge	....	....	....	....	**.85**	....	**9.65**	12.00	**5.76**	5.00	**12.46**	13.60
Harvest Queen	Gaithersburg	**.67**	....	**1.28**	1.25	**3.25**	....	**10.15**	10.00	**2.24**	2.00	**15.52**	14.60
Wheat and Grass Grower	Gaithersburg	**1.31**	.50	**1.98**	2.00	**2.10**	....	**8.40**	8.00	**4.12**	5.00	**18.26**	18.40
Wheat and Grass Grower	Frederick	**.98**	.50	**1.75**	2.00	**.85**	....	**10.25**	8.00	**6.44**	5.00	**20.48**	18.40
I. P. Thomas & Son Co., Phila., Pa.													
Potash Mixture 0-12-5	Preston	....	....	....	....	**1.55**	....	**12.35**	12.00	**5.38**	5.00	**14.41**	13.60
Victor Potash Fertilizer 2-8-5	Preston	**1.92**	....	**2.43**	2.00	**1.40**	....	**9.50**	8.00	**5.38**	5.00	**21.83**	18.40
Wm. B. Tilghman Co., Salisbury, Md.													
Super Phosphate	Salisbury	....	....	....	....	**.40**	....	**17.10**	16.00	....	....	**13.74**	12.80
Bone Tankage Mixture	Salisbury	**1.90**	1.00	**2.12**	2.00	**.50**	....	**12.90**	12.00	**4.32**	4.00	**22.34**	20.80
Bone Tankage Mixture	Salisbury	**1.92**	1.00	**2.01**	2.00	**.65**	....	**13.05**	12.00	**4.12**	4.00	**21.88**	20.80
High Grade Potash Mixture	Salisbury	**1.75**	1.00	**2.18**	2.00	**.55**	....	**8.55**	8.00	**10.00**	10.00	**23.64**	22.40
High Grade Potash Mixture	Salisbury	**1.84**	1.00	**2.15**	2.00	**.50**	....	**9.00**	8.00	**10.32**	10.00	**24.14**	22.40

Wm. B. Tilghman Co., Salisbury, Maryland, (Continued).														
Mixture "B"	Salisbury	**3.67**	2.25	**4.18**	4.00	**.70**	....	**9.90**	8.00	**5.04**	4.00	**28.78**	25.60
Phosphate and Potash Mixture	Salisbury	....	....	....	....	**.35**	....	**12.25**	12.00	**5.00**	5.00	**13.85**	13.60
Phosphate and Potash Mixture	Salisbury	....	....	....	....	**.55**	....	**12.45**	12.00	**5.70**	5 00	**14.60**	13.60
Special 4-16-10	Vienna	**3.58**	2.25	**3.92**	4.00	**.25**	....	**17.25**	16.00	**10.16**	10.00	**37.65**	36.80
Special 2-16-8	Salisbury	**2.01**	1.25	**2.20**	2.00	**.40**	....	**16.45**	16.00	**8.00**	8.00	**28.42**	27.20
Special 2-16-8	Vienna	**1.94**	1.25	**2.28**	2.00	**.40**	....	**16.00**	16.00	**8.16**	8.00	**28.51**	27.20
Special Grain Fertilizer	Salisbury	**1.16**	.50	**1.40**	1.00	**.35**	....	**10.35**	10.00	**5.34**	5.00	**18.20**	16.00
Special Grain Fertilizer	Salisbury	**1.18**	.50	**1.52**	1.00	**.95**	....	**11.75**	10.00	**5.34**	5.00	**19.89**	16.00
Standard	Salisbury	**1.58**	1.00	**2.06**	2.00	**.50**	....	**9.20**	8.00	**4.64**	5.00	**19.39**	18.40
Standard	Vienna	**1.34**	1.00	**2.06**	2.00	**.65**	....	**9.35**	8.00	**5.00**	5.00	**19.82**	18.40
F. W. Tunnell & Co., Inc., Phila., Pa.													
Acid Phosphate	Colora	....	....	....	....	**.55**	....	**17.25**	16.00	....	....	**13.88**	12.80
Standard Cereal Manure	Colora	**1.67**	1.21	**2.01**	2.00	**1.00**	....	**12.90**	12.00	**4.54**	4.00	**22.14**	20.80
Veribest Cereal Manure	Colora	**1.49**	1.21	**1.98**	2.00	**.45**	....	**8.95**	8.00	**5.16**	5.00	**19.28**	18.40
Wheat and Cereal Manure	Colora	**.70**	.49	**1.04**	1.00	**.75**	....	**9.95**	9.00	**4.28**	4.00	**15.65**	14.40
United States Guano Co., Balto., Md.													
Acid Phosphate	Baltimore	....	....	....	....	**.50**	....	**17.20**	16.00	....	....	**13.84**	12.80
Acid Phosphate	Baltimore	....	....	....	....	**.20**	....	**17.40**	16.00	....	....	**13.95**	12.80
Acid Phosphate	Hancock	....	....	....	....	**.25**	....	**17.45**	16.00	....	....	**14.00**	12.80
Stand. U. S. Big Four Crop Grower	Walkersville	**.53**	.49	**.99**	1.00	**1.20**	....	**10.20**	9.00	**4.32**	4.00	**15.76**	14.40
Stand. U. S. Big Four Crop Grower	Baltimore	**.70**	.49	**1.11**	1.00	**1.20**	....	**10.00**	9.00	**5.20**	4.00	**16.78**	14.40
Standard U. S. Fish Guano	Baltimore	**1.47**	1.00	**1.98**	2.00	**1.45**	....	**9.95**	10.00	**4.00**	4.00	**19.30**	19.20
General Use Guano	Baltimore	**1.79**	1.00	**2.13**	2.00	**1.10**	....	**12.10**	12.00	**5.08**	4.00	**22.43**	20.80
General Use Guano	Baltimore	**1.99**	1.00	**2.37**	2.00	**.85**	....	**12.35**	12.00	**4.28**	4.00	**22.91**	20.80
Lime Phosphate	Hancock	....	....	....	....	**.65**	....	**16.75**	13.00	....	....	**13.50**	10.40
Mammoth Potato Grower	Baltimore	**1.28**	1.00	**2.00**	2.00	**1.55**	....	**8.55**	8.00	**10.16**	10.00	**23.20**	22.40
Stand. U. S. Phos. and Potash Mix.	Baltimore	....	....	....	....	**.60**	....	**10.90**	10.00	**10.32**	10.00	**17.07**	16.00
Standard U. S. Phos. and Potash	Baltimore	....	....	....	....	**1.90**	....	**10.20**	10.00	**4.32**	4.00	**11.91**	11.20
High Grade Phosphate and Potash	Baltimore	....	....	....	....	**.85**	....	**12.55**	12.00	**5.36**	5.00	**14.46**	13.60
Standard U. S. Rainbow Brand	Baltimore	**1.74**	1.00	**2.12**	2.00	**.95**	....	**12.95**	12.00	**3.32**	2.00	**21.64**	19.20
Standard U. S. Rainbow Brand	Baltimore	**2.22**	1.00	**2.70**	2.00	**1.45**	....	**11.85**	12.00	**3.00**	2.00	**22.90**	19.20
Raw Bone Meal	Baltimore	....	....	**4.99**	4.50	....	....	***24.80**	***22.00**	....	....	**34.84**	31.20
Service Mixture	Baltimore	**1.60**	1.00	**1.98**	2.00	**.85**	....	**12.35**	12.00	**6.20**	6.00	**22.89**	22.40
Service Mixture	Baltimore	**2.08**	1.00	**2.42**	2.00	**.75**	....	**12.25**	12.00	**6.28**	6.00	**24.61**	22.40
Standard U. S. Star Brand	Hancock	**6.26**	2.99	**6.77**	6.00	**1.10**	....	**8.90**	8.00	**6.74**	4.00	**39.76**	33.60

*Total Phosphoric Acid

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Valliant Fertilizer Co., Laurel, Del.													
Diamond	Princess Anne	**1.58**	1.00	**1.92**	2.00	**.75**	....	**8.35**	8.00	**5.36**	5.00	**$18.76**	$18.40
E. S. Valliant & Son, Centreville, Md.													
Ammoniated Potash Mixture 1-11 5	Centreville	**.73**	.50	**.99**	1.00	**1.55**	....	**10.85**	11.00	**5.36**	5.00	**17.16**	16.80
Animal Base Mixture 1-11-4	Centreville	**.84**	.50	**1.08**	1.00	**.65**	....	**10.85**	11.00	**5.88**	4.00	**17.80**	16.00
Animal Base Mixture 1-11-4	Centreville	**.80**	.50	**.99**	1.00	**.75**	....	**12.05**	11.00	**4.32**	4.00	**17.17**	16.00
Big Three 1-9-3	Centreville	**.56**	.75	**1.11**	1.00	**1.00**	....	**9.80**	9.00	**3.80**	3.00	**15.47**	13.60
Fall Keystone 2-9-5	Centreville	**1.88**	1.00	**2.17**	2.00	**.40**	....	**10.50**	9.00	**5.20**	5.00	**21.30**	19.20
Favorite 1-9-5	Centreville	**.77**	.50	**1.01**	1.00	**.95**	....	**10.55**	9.00	**5.32**	5.00	**16.88**	15.20
Harvest 0-12-5	Centreville	....	....	....	....	**1.00**	....	**13.00**	12.00	**5.16**	5.00	**14.68**	13.60
Ideal 0-12-6	Centreville	....	....	....	....	**1.00**	....	**12.20**	12.00	**6.34**	6.00	**14.98**	14.40
Ideal 0-12-6	Centreville	....	....	....	....	**1.05**	....	**12.55**	12.00	**6.00**	6.00	**15.00**	14.40
Keystone 2-8-5	Centreville	**1.78**	1.00	**2.12**	2.00	**.60**	....	**8.80**	8.00	**6.08**	5.00	**20.47**	18.40
McKenney's Mixture 1-9-8	Centreville	**.92**	.50	**1.18**	1.00	**.95**	....	**10.05**	9.00	**8.00**	8.00	**19.30**	17.60
Oriole ½-9-4	Centreville	....	....	**.51**	.50	**.90**	....	**9.80**	9.00	**4.68**	4.00	**13.76**	12.40
Special Mixture 1-11-4	Centreville	**.61**	.50	**1.09**	1.00	**.55**	....	**11.45**	11.00	**5.28**	4.00	**17.82**	16.00
Special Mixture 1-11-4	Centreville	**.78**	.50	**1.02**	1.00	**.65**	....	**12.05**	11.00	**4.16**	4.00	**17.15**	16.00
Standard 1-9-4	Centreville	**.68**	.50	**.99**	1.00	**1.25**	....	**9.15**	9.00	**5.00**	4.00	**15 47**	14.40
Standard 1-9-4	Centreville	**.65**	.50	**1.16**	1.00	**.95**	....	**9.75**	9.00	**6.88**	4.00	**18.08**	14.40
C. M. West's Special Mixture 1-11-5	Centreville	**.74**	.50	**1.13**	1.00	**1.00**	....	**10.40**	11.00	**6.12**	5.00	**17.89**	16.80
W. H. Valliant & Bro., Bellevue, Md.													
Fish Special 2-8-6	Bellevue	**1.24**	....	**2.18**	2.00	**.30**	....	**9.00**	8.00	**10.00**	6.00	**23.97**	19.20
1-8-4 Phosphate	Bellevue	**.26**	....	**1.37**	1.00	**1.15**	....	**9.25**	8.00	**4.56**	4.00	**16.70**	13.60
0-12-5 Phosphate	Bellevue	....	....	....	....	**.45**	....	**12.35**	12.00	**5.36**	5.00	**14.24**	13.60

Virginia-Carolina Chemical Corp., Baltimore, Md.													
American Champion Grain Grower	Baltimore	.70	.49	1.02	1.00	1.60	....	9.30	9.00	4.08	4.00	15.02	14.40
V-C Super Phosphate	Baltimore	....	....	....	....	.70	....	17.20	16.00	....	....	13.87	12.80
V-C Double Empire Brand	Baltimore	3.11	....	3.62	4.00	1.05	....	16.35	16.00	6.80	6.00	33.16	33.60
V-C Fish, Bone and Potash	Baltimore	1.51	.78	2.06	2.00	2.60	....	9.60	9.00	3.60	3.00	19.19	17.60
V-C Fish, Bone and Potash	Baltimore	1.58	.78	2.13	2.00	3.00	....	9.60	9.00	3.36	3.00	19.34	17.60
V-C Fish, Bone and Potash	Baltimore	1.65	.78	2.17	2.00	3.05	....	9.55	9.00	3.36	3.00	19.47	17.60
V-C Fish, Bone and Potash	Baltimore	1.62	.78	2.17	2.00	2.70	....	9.70	9.00	3.34	3.00	19.52	17.60
V-C Star Brand Fertilizer	Baltimore	.70	.49	1.08	1.00	1.60	....	9.10	9.00	4.32	4.00	15.30	14.40
V-C Star Brand Fertilizer	Middletown	.70	.49	.99	1.00	1.55	....	9.65	9.00	4.36	4.00	15.40	14.40
V-C Super 26 Fertilizer	Middletown	1.59	.78	2.19	2.00	.95	....	15.25	16.00	8.40	8.00	27.82	27.20
V-C Valley Pride	Baltimore	1.66	.78	1.98	2.00	1.50	....	12.40	12.00	2.12	2.00	19.77	19.20
V-C Valley Pride	Baltimore	1.79	.78	2.10	2.00	1.50	....	13.30	12.00	2.24	2.00	21.06	19.20
"Bloomaid" Tablet Form	Cambridge	....	....	12.82	12.00	.08	....	14.87	14.00	7.93	6.00	69.53	64.00
Westminster Fertilizer Co., Westminster, Md.													
Acid Phosphate	Westminster	....	....	....	....	.25	....	19.25	16.00	....	....	15.44	12.80
Leader	Westminster	.72	.49	1.06	1.00	.70	....	9.90	9.00	4.74	4.00	16.06	14.40
2-8-5	Westminster	1.47	1.00	1.98	2.00	.50	....	9.30	8.00	5.08	5.00	19.50	18.40
Super-A	Westminster	.48	.49	.99	1.00	1.10	....	10.80	10.00	2.36	2.00	14.66	13.60
Worcester Fert. Co., Snow Hill, Md.													
Acid Phosphate 0-16-0	Snow Hill	....	....	....	....	.35	....	17.05	16.00	....	....	13.69	12.80
Acid Phosphate 0-16-0	Snow Hill	....	....	....	....	.50	....	16.70	16.00	....	....	13.44	12.80
Correct Plant Food Mixture 1-9-4	Snow Hill	.94	.33	1.20	1.00	.70	....	9.30	9.00	4.76	4.00	16.16	14.40
Correct Plant Food Mixture 1-9-4	Snow Hill	.76	.33	1.19	1.00	.60	....	9.90	9.00	4.24	4.00	16.16	14.40
Correct Plant Food Mixture 2-8-5	Snow Hill	1.79	1.66	2.25	2.00	.70	....	8.40	8.00	5.32	5.00	20.09	18.40
Correct Plant Food Mixture 2-8-5	Snow Hill	1.95	1.66	2.26	2.00	.75	....	8.00	8.00	5.94	5.00	20.30	18.40
Correct Plant Food Mixture 2-12-4	Snow Hill	1.43	.66	2.18	2.00	.75	....	12.05	12.00	4.12	4.00	21.77	20.80
Correct Plant Food Mixture 2-12-4	Snow Hill	1.70	.66	2.08	2.00	.60	....	11.70	12.00	4.28	4.00	21.19	20.80
Correct Plant Food Mixture 0-12-5	Snow Hill	....	....	....	....	.35	....	12.05	12.00	5.04	5.00	13.72	13.60

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
R. B. Wyand, Chewsville, Md.													
Super Phosphate	Chewsville	....	....	....	....	**.25**	....	**18.95**	16.00	....	....	**$15.20**	$12.80
Golden Harvest	Chewsville	**1.28**	....	**1.88**	2.00	**.60**	....	**10.40**	10.00	**5.92**	5.00	**20.67**	20.00
Grain Mixture	Chewsville	**.41**	....	**.92**	1.00	**.85**	....	**8.75**	9.00	**4.78**	4.00	**14.63**	14.40
Muriate of Potash	Chewsville	....	....	....	....	....	....	....	....	**50.00**	50.00	....	....
Phosphate and Potash Mixture	Chewsville	....	....	....	....	**.50**	....	**13.10**	12.00	**5.32**	5.00	**14.82**	13.60